



Title: PROBES FOR CHONDROGENESIS
Inventor: Hering, Thomas M.; Serial Number: 10/623,914
Attorney Docket Number: 27708/04065
REPLACEMENT SHEET

Fig. 3

Sequence of CZF-1 (cDNA)

50
AATGGAGCGAAGACCATGGGACTGAGTACACAGATGAAGACACAGAAC

100
ATAGAGAGGATAAGTAATCACTAGCAAGTGGAAAGAACCGGGATTTCAGATC

150
CAGAACAGGCTGACTCCAGAGTCACTGGCTGTCACTGTAGTTCCCTCAACT

200
ACTGCCTCAGCTCTACAATCCCAGAGTAAAGCTCTCTCAAATGAAGAG

250
CCAGGAAGAGGTAGAGGTGGCAGGAATTAAACTTGTAAAGCCATGTCCC

300
TGGGTTCACTGACTTACAGATGTGCCATAGACTTTCCAAGATGAA

350
TGGGAGTGGCTGAATCTTGCTCAGAGAAGTTGTACAAGAAGGTGATGTT

400
AGAAAAACTACAGGAACCTAGTTCAGTGGGTCTTGCATTCTAAACCAG

450
ATGTGATCTCCTTACTGGAGCAAGAGAAAGACCCTGGGTGATAAAAGGA

500
GGGATGAACAGAGGCCTGTGCCAGACTGGAGTGTGTGGTGACCAA

550
ATCATTATCTTAAACCAGGATATTATGAAGAAAATTACCCCCGGCAA

600
TCATAATGGAAAGACTAAAAGCTATGACCTTGAATGTTAACATTAGGG

650
AAAAACTGGAAATGTGAAGACTTGTGAGAGGGAGCTTGTAAACCAGAA

700
GACACATTAGGCAAGAGACCATCACTCATATAGATACTCTTATTGAAA

750
AAAGAGATCACTCTAACAAATCTGGACAGTTTCATCTGAATACATTA

800
TCTTATATAAACAGATTTCCATGGAAGAGAGAATATTAATTTCA

Fig. 3 (con't)

850
TACAGATAAGAAAAGCTTAAAAACACATTCAAGTTGTGAAAAAACACAAGC
900
AAGACCGTGGAGAAAAGAAACTTTAAAATGTAATGACTGTGAGAAAATA
950
TTCAGCAAAATCTCAACCCTACTCTCACCAAAGAATTACAGGGAGA
1000
GAAACCCTATGAATGTATTGAATGTGGAAAGGCCTTAGCCAGAGTGCCC
1050
ACCTTGCTAACATCAGAGAATACACACAGGGAGAAAACCTTTGAATGT
1100
ACTGAATGTGGAAAGCCTTCAGCCAGAATGCTCATCTGTTAACACCA
1150
GAGAGTTCATCTGGAGAGAAACCTTATCAGTGTAAAGCAGTGTAAATAAG
1200
CATTCAAGCCAGCTTGCACACCTTGCTAACATCAGAGGGTCCACACTGGA
1250
GAGAAACCCTATGAATGTATTGAATGTGGGAAGGCTTTAGTATTGCTC
1300
ATCCCTAGCTCATCGAAGGATTCACACTGGAAAAGACCTTATGAAT
1350
GTATTGACTGTGGAAAGCTTCAGGCAGAATGCTCTCTTACGTCA
1400
CGGCGATATTATCATACTGGAGAGAAACCTTGACTGTATTGATTGTGG
1450
GAAGGCTTCACTGATCACATAGGACTTATTCAAGCATAAGAGAATTCA
1500
CTGGAGAGAGACCTTACAAATGTAATGTGTGGGAAGGCTTTAGCCAT
1550
GGCTCATCTCTGACAGTACATCAGAGAATTCAACAGGAGAGAAACCTTA
1600
TGAATGCAATATCTGTGAGAAAGCCTTCAGCCATCGTGGGTCTTTACTC



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Fig. 3 (con't)

1650
TTCATCAGAGAGTTCATACTGGAGAGAAACCTATGAATGTAAAGAATGT

1700
GGGAAAGCTTCGGCAGAGCACGCATCTGGCTCATCATCAGAGAATTCA

1750
TACTGGAGAGAAACCTTATGAATGTAAGGAATGCAGCAAAACCTTCAGCC

1800
AGAATGCACACCTCGCGCAGCATCAGAAAATACACACTGGGGAGAACCT

1850
TATGAATGTAAGGAACGTGGTAAGGCCTTCAGTCAGATTGCACACCTTGT

1900
TCAGCACCAAGAGAGTTCATACTGGTGAGAAGCCTACGAATGTATTGAAT

1950
GTGGGAAGGCCTTAGTGATGGCTCATATCTTGTCAACATCCGAGACTC

2000
CACAGTGGCAAAAGACCGTATGAATGTCTGAATGTGGGAAGGCATTCA

2050
GCAGAGGGCATCCTGATTGTCATCAGAGATGTCAACTGGTGAGAAC

2100
CTTATGAATGTAATGTTGTGGAAAGCCTTAGCCATCGTAAATCCCTT

2150
ACTCTGCATCAGAGAATTACATACAGGAGAGAAACCTTATGAGTGTAAGGA

2200
ATGTAGCAAAGCCTTCAGCCAGGTTGCCATCTTACTCTACATAAGAGAA

2250
TTCATACTGGAGAAAGGCCATGAGTGTAAAGAATGTGGAAAAGCCTTC

2300
AGGCAGAGTGTACATCTGCTCATCAGCGAATTCAACCGGAGAGTC

2350
ATCAGTTATTCTCTCCTCTGCCCTCCATACCACCAAGTCCTATAGATT

2400
AATCTCGTAAATGCTTCTAGCATCCATCTGCTTTTCCAGCACATGTCC



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Fig. 3 (con't)

2450
CATCATCATAGTCCAAGACGCAACCATCTCATCTGGATTCTGCAGTAGC
2500
ATAACTGTTGCCCTTTGCTTCTATCAACTACATGTTAACACTGTAGG
2550
CAGCCTAACCTTTAAAAATAAAACATAATTATGTTATTTCCCAT
2600
TTAAAACACTTGATTGAAAAATATATTAACTAATCCATTTCAAGGATT
2650
AGCACACACTGGCATATAGTTATTGCTAAATAATGCTAGCCATTAAGGT
2666
AAAAAAAAAAAAAAA



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Fig. 5

Sequence of CZF-2 (cDNA)

50
GGGAGTTCTTCAATTCCAGAACCATGACTGATGGGTTGGTGACATTAG
100
GGATGTGCCATCGACTTCTCTCAGGAGGAGTGGGAATGCCTGGACCCTG
150
CTCAGAGGGACTTGTACGTGGATGTAATGTTGGAGAACTATAAGTAACCTG
200
GTGTCACTGGATTGGAGTCAAAAACGTATGAGACCAAAAAATATTTTC
250
AGAAAATGATATTTTGAATAAATTTCCCAGTGGGAGATGAAGGACA
300
AAAGTAAAACCCTTGGCCTTGAGGCATCCATCTCAGAAATAATTGGAAG
350
TGCAAAAGCATATTCGAGGGACTAAAGGACATCAAGAGGGATACTTCAG
400
TCAAATGATAATCAGCTATGAAAAAACCTTCTTACAGAAAAAGTAAAT
450
CTCTTACTCCACATCAAAGAATTCAAATACAGAGAAATCCTATGTTGT
500
AAGGAATGTGGGAAGGCTTGCAGTCATGGCTAAAACCTGTTCAACATGA
550
GAGAACTCATACAGCTGAAAGCACTTGAATGTAAGGAATGTGGGAAGA
600
ATTATTTAAGTGCCTATCAAATGTGCATCAGAGATTCTACTGGT
650
GAGAAACCTATGAGTGTAAAGGAATGTGGGAAGACCTTAGCTGGGATC
700
AAGCCTTGTAAACATGAGAGAATTCAACTGGTGAGAAACCTATGAAT
750
GTAAAGAATGTGGGAAGGCCTTAGTCGTGGCTATCACCTAACCAACAT
800
CAGAAAATTCAATTGGTGTGAAATCTTATAAATGTAAGGAATGTGGGA

Fig. 5 (con't)

850
GGCCTTTTGGGGCTCAAGCCTGCTAACATGAGATAATTACAG
900
GTGAGAACCTTATAAATGTAAAGAATGTGGGAAGGCCTTCAGTCGTGGC
950
TATCAACTTACTCAGCATCAGAAAATCCATACTGGTAAGAACCTTATGA
1000
ATGTAAAATATGTGGAAAGGCTTTGTTGGGCTATCAACTTACTCGAC
1050
ATCAGATATTCATACTGGTGAGAAACCCTATGAATGCAAGGAATGTGGG
1100
AAGGCTTTAATTGCGGATCAAGTCTTATTCAACATGAAAGAATTCAAC
1150
TGGTGAGAACCTTATGAATGTAAAGAATGTGGAAAGGCCTTAGTCGTG
1200
GCTATCACCTTCTAACATCAGAAAATCCATACTGGTGAGAACCTTT
1250
GAATGTAAGGAATGTGGGAAGGCCTTAGTTGGGTTCAAGCCTGTTAA
1300
ACATGAGAGAGTCATACTGGTGAGAAATCCCAGAACATGAAAGAATGCG
1350
GAAAGACCTTTGTAGTGGGTATCAACTTACTCGACATCAGGTATTCAC
1400
ACTGGTGAGAACCTATGAATGTAAGGAATGTGGGAAGGCCTTTAATTG
1450
TGGATCAAGCCTGTTAACATGAAAGAACATCCACAGGGGAGAACCCCT
1500
ATGAATGTAAGAACATGAAAGGCTTTAGTCGTGGCTATCACCTTACTC
1550
AACATCAGAAAATTACCGGTGAGAAACCTTCAAATGTAAGGAATGT
1600
GGGAAGGCCTTCAGTTGGGTTCAAGCCTAGTTAACATGAGAGAGTCCA



Fig. 5 (con't)

1650
TACTAATGAGAAGTCTTATGAATGTAAAGACTGTGGGAAGGCCTTGGTA
1700
GTGGCTATCAACTTAGTGGTACAGAGATTCTACTGGTGAGAAGCTT
1750
TATCACACATAAGGAATTGGAGACCTTACTCGTGGCTAAAACTTGT
1800
TCATGAGAGAACTCATAGTAATGATAAACCCCTACAAATATAACGAATGTG
1850
GGGAAGCCTTCTGTGGACAACCTACTCAAATGAGAAAATTGATACTGAT
1900
GAAACCTTATGATTGAAAGTTGTAAAAGAATATTTGTGTGCGTATAG
1950
ACAACCTTATCATAATAAGAACTCTTACTCTTGAGAACCTTGTGAATGTA
2000
AGGGTTGTGCAAAAGCCATTCAATTCTGTATGGCAATTATCTTGCTA
2050
TCCAGCAATTCAACTAGTGAGAAATATTTGAATATAATTATGAAA
2100
AGGCCTTAGACTCTGTACAGTCTTATTGGATATCAATTATACTGATG
2143
TAAAATCATTAAATGAAAAAAAAAAAAAAA